

[1] **EC-TYPE EXAMINATION CERTIFICATE**

[2] **Component intended for use on/in equipment or protective system
intended for use in Potentially Explosive Atmospheres
Directive 94/9/EC**



[3] EC-Type Examination Certificate Number: **DEMKO 03 ATEX 134841 U**

[4] Component: **Terminal blocks Types 1492-K3, K3T, -K3Q, -KW3, KG3,
KG3T, KG3Q and KWG3**

[5] Manufacturer: **Allen-Bradley Co. Inc.**

[6] Address: **1201 S 2nd Street, Milwaukee, WI 53204, United States**

[7] This Component and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.

[8] UL International Demko A/S, notified body number 0539 in accordance with Article 9 of the Council Directive 94/9/EC of 23 March 1994, certifies that this component has been found to comply with the Essential Health and Safety Requirements relating to design and construction of components intended for use in potentially explosive atmospheres given in Annex II to the Directive.

The examination and test results are recorded in confidential report no. 134841

[9] Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

EN 50014: 1997 E incl. A1+A2 EN 50019: 2000 E EN 50281-1-1:1998 E

[10] The sign "U" placed after the certificate number indicates that this certificate must not be mistaken for a certificate intended for an equipment or protective system. This partial certification may be used as a basis for certification of an equipment or protective system.

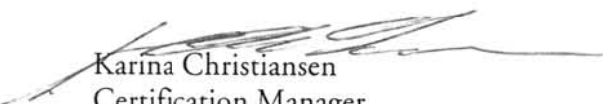
[11] This EC-Type examination certificate relates only to the design, examination and tests of the specified component in accordance with the Directive 94/9/EC. Further requirements of the Directive apply to the manufacturing process and supply of this component. These are not covered by this certificate.

[12] The marking of the component shall include the following:

 II 2 GD EEx e II

On behalf of UL International Demko A/S

Herlev, 2003-09-12


Karina Christiansen
Certification Manager

UL International Demko A/S

Lyskaer 8, P.O. Box 514
DK-2730 Herlev, Denmark

Certificate: 03 ATEX 134841U



**An Affiliate of
Underwriters
Laboratories Inc**

Schedule

[13]

[14]

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[15]

Description of Equipment or protective system

Feed Through Terminal Blocks Types 1492-K3, 1492-K3T, 1492-K3Q, 1492-KW3 and Protective Conductor Terminal Blocks Types KG3, KG3T, KG3Q and KWG3, for the connection of copper conductors in enclosures in type of explosion protection increased safety "e", insulating parts made of Wemid, with accessories (end plates, partitions, cross-connectors, end brackets and identification material) for fixing on mounting rails type TW 35.

Operating temperature range -20°C ... +100 °C.

Ambient temperature range -20°C ... +40 °C. (for T6 applications)

Ambient temperature range -20°C ... +55 °C. (for T5 applications)

Electrical data

| | |
|---|-------------------------------|
| Types | 1492-K3, 1492-K3T, 1492-KG3Q, |
| Max. rated voltage | 550 V |
| Max. rated voltage (with cross-connectors jumping over) | 550 V |
| Max. rated voltage (with adjacent Cross-connectors) | 420 V |
| Rated current (at rated cond. Cross section) | 21 A |
| Rated current (with cross-connectors) | 21A |
| Rated conductor cross section mm ² (AWG) | 2,5 (14) |
| Max. conductor cross section mm ² (AWG) | 2,5N(14) |
| Min. conductor cross section mm ² (AWG) | 0,5 (20) |
| Type | 1492-KW3 |
| Max. rated voltage | 550 V |
| Max. rated voltage (with cross-connectors jumping over) | 275 V |
| Max. rated voltage (with adjacent cross-connectors) | 420 V |
| Rated current (at rated cond. cross section) | 21 A |
| Rated current (with cross-connectors) | 21 A |
| Rated conductor cross section mm (AWG) | 2,5 (14) |
| Max. conductor cross section mm (AWG) | 2,5 (14) |
| Min. conductor cross section mm (AWG) | 0,5 (20) |
| Max. conductor cross section for the spring clamp mm ² (AWG) | - |
| Min. conductor cross section for the spring clamp mm ² (AWG) | - |
| Max. conductor cross section for the zugbugel mm ² (AWG) | 6 (10) |
| Min. conductor cross section for the zugbugel mm (AWG) | 0,33 (22) |

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Electrical data (continued):

| | |
|---|-------------------------------|
| Types | 1492-KG3, 1492-KG3T, 1492-K3Q |
| Rated conductor cross section mm ² (AWG) | 2,5 (14) |
| Max. conductor cross section mm ² (AWG) | 2,5 (14) |
| Max. conductor cross section mm ² (AWG) | 0,5 (20) |
| Type | 1492-KWG3 |
| Rated conductor cross section mm ² (AWG) | 2,5 (14) |
| Max. conductor cross section mm ² (AWG) | 2,5 (14) |
| Min. conductor cross section mm ² (AWG) | 0,5 (20) |
| Max. conductor cross section for the spring Clamp mm ² (AWG) | - |
| Min. conductor cross section for the spring clamp mm ² (AWG) | - |
| Max. conductor cross section for the spring zugbugel mm ² (AWG) | 6 (10) |
| Min. conductor cross section for the spring zugbugel mm ² (AWG) | 0,33 (22) |

Mounting instructions

The feed Through Terminal Blocks and Protective Conductor Terminal Blocks are suitable for application in enclosures in atmospheres with flammable gases and combustible dust. For flammable gases these enclosures must satisfy the requirements according to EN 50014 and EN 50019. For combustible dust these enclosures must satisfy the requirements according to EN 50281-1-1.

In combination with other terminal block series and sizes and if other accessories are used the applicable creepage distances and clearances shall be met.

Regarding the use of end plates, partitions and end brackets the instructions of the manufacturer must be followed.

If smaller cross sections than the rated cross section are used, the belonging lower current has to be laid down in the EC-Type Examination Certificate of the complete apparatus.

The feed Through Terminal Blocks may be used, based on the self-heating effect when used at the above mentioned rated current and at the max. ambient temperatures of +40 °C (for temperature class T6) and +55 °C (for temperature class T5), at the mounting position in electrical apparatus, e.g. junction and connection boxes. When the Terminal Blocks are used in electrical apparatus of temperature classes T1 up to T4, the highest temperature of the insulating material shall not exceed the maximum value of the operating temperature range.

Routine tests:

Routine dielectric strength tests according to EN 50019 clause 7.1.b, shall be conducted using the method as laid down in document no. A_10_07.

Schedule

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[16] Report No.
Project Report No.: 134054-01 (Hazardous Location Testing)

Drawings:

| Drawing Number | Date | Drawing No. | Date |
|------------------|------------|-----------------|------------|
| 3 35211, rev. 00 | 2002-12-19 | 4 34599, rev.00 | 2002-12-19 |
| 3 35212, rev. 00 | 2002-12-19 | 4 34600, rev.00 | 2002-12-19 |
| 3 35213, rev. 00 | 2002-12-19 | 3 21851, rev.04 | 2002-12-19 |
| 3 35214, rev. 00 | 2002-12-19 | 2 27479, rev.00 | 2002-12-19 |
| 3 35215, rev. 00 | 2002-12-19 | 3 34612, rev.01 | 2002-12-19 |
| 3 34587, rev. 02 | 2002-12-19 | 3 35070, rev.01 | 2002-12-19 |
| 3 34588, rev. 02 | 2002-12-19 | 3 35071, rev.01 | 2002-12-19 |
| 3 34589, rev. 00 | 2002-12-19 | 3 34606, rev.00 | 2002-12-19 |
| 3 34590, rev. 02 | 2002-12-19 | 3 34607, rev.00 | 2002-12-19 |
| 3 34591, rev. 02 | 2002-12-19 | 3 34609, rev.00 | 2002-12-19 |
| 3 34592, rev. 02 | 2002-12-19 | 4 20727, rev.04 | 2002-12-19 |
| 3 34593, rev. 00 | 2002-12-19 | 4 34547, rev.00 | 2002-12-19 |
| 3 34595, rev. 00 | 2002-12-19 | 41110-188 | 2003-03-26 |
| 3 34596, rev. 00 | 2002-12-19 | | |
| 3 34597, rev. 03 | 2002-12-19 | | |
| 3 34598, rev. 03 | 2002-12-19 | | |


[17] Special conditions for safe use:
None

[18] Essential Health and Safety Requirements
Concerning ESR this Schedule verifies compliance with the Ex standards only. The manufacturer's Declaration of Conformity declares compliance with other relevant Directives.

The manufacturer shall inform the notified body concerning all modifications to the technical documentation as described in ANNEX III to Directive 94/9/EC of the European Parliament and the Council of 23 March 1994.

On behalf of UL International Demko A/S

Herlev, 2003-09-12


Karina Christiansen
Certification Manager